

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A HAZARD IDENTIFICATION BEACON WHICH WILL BE PRE-EMPTED BY THE FIREHOUSE AT MD 331 @ SCHOOL STREET IN DORCHESTER COUNTY.

MD 331 RUNS IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

- THE TRAFFIC SIGNAL HEADS SHALL FLASH YELLOW FOR MD 331 WHEN IT IS PRE-EMPTED BY EITHER OF THE TWO (2) PUSHBUTTONS PROVIDED INSIDE THE FIREHOUSE.

III. CONSTRUCTION NOTES

- THIS INTERSECTION WILL BE EQUIPPED WITH A PHONE DROP. UPON COMPLETION OF THIS THE CONTRACTOR SHALL NOTIFY MS. SCHERYL BROWN AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MS. SCHERYL BROWN WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.
- FOR EXACT PUSHBUTTON HEIGHT/LOCATION, THE CONTRACTOR SHALL CONTACT THE FIRE DEPARTMENT.
- UPON COMPLETION OF THE PROJECT, THE SIGNAL OPERATIONS SECTION SHALL DEMONSTRATE THE OPERATION FOR THE FIREHOUSE PERSONNEL.

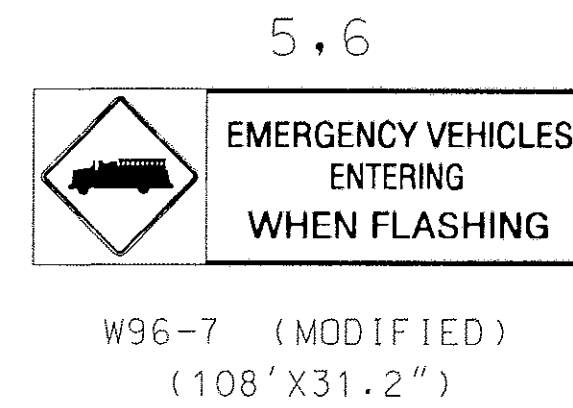
EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	QUANTITY	DESCRIPTION
9012	4 EACH	12" ONE-WAY, ONE SECTION (Y) SIGNAL HEAD - MAST ARM MOUNTED (BLACK FACE)
9092	1 EACH	INTERSECTION MONITOR W/BATTERY BACK-UP
9000	1 EACH	CABINET 'M' TYPE, CONTROLLER WITH INTERSECTION MONITOR II WITH BATTERY BACKUP AND FIRE PRE-EMPTION HOUSED IN A POLE-MOUNTED CABINET
9089	62.3 S.F.	FLAT SHEET ALUMINUM (OVERHEAD MOUNTED)
		2 EACH "EMERGENCY VEHICLES ENTERING WHEN FLASHING" SYMBOL (MODIFIED) 108"X31.2" OVERHEAD (BACK TO BACK) MOUNTING MAST ARM MOUNTED
9096	2 EACH	PED PUSHBUTTONS

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 U.D.	MAINTENANCE OF TRAFFIC
2001	1 C.Y.	TEST PIT EXCAVATION
5003	80 L.F.	12" WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
5007	150 L.F.	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
6001	1600 S.F.	4 INCH CONCRETE SIDEWALK (320') 5' WIDTH
NEG	300 L.F.	STANDARD TYPE C COMBINATION CURB AND GUTTER 12" INCH GUTTER PAN 8 INCH DEPTH
8001	3.0 C.Y.	F/I CONCRETE FOUNDATION
8006	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8011	4 EACH	INSTALL SIGNAL HEAD (ANY TYPE)
8019	1 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8024	360 L.F.	F/I 2" ELECTRICAL CONDUIT - PVC (SCHEDULE 80) - TRENCHED
8033	3 EACH	F/I ELECTRICAL HANDHOLE
8034	1 EACH	F/I GROUND ROD
8044	140 L.F.	F/I ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
8043	530 L.F.	F/I ELECTRICAL CABLE - 3-CONDUCTOR (NO. 14 AWG)
8047	90 L.F.	F/I ELECTRICAL CABLE - 1-CONDUCTOR (NO. 8 AWG)
8048	30 L.F.	F/I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8053	62.3 S.F.	INSTALLATION - OVERHEAD SIGN
8065	30 L.F.	F/I 1" ELECTRICAL CONDUIT - PVC RISER (PHONE DROP)
8066	1 EACH	CONTROL AND DISTRIBUTION
NEG.	LUMP SUM	INSTALLATION OF JUNCTION BOXES, PUSHBUTTONS, AND 150' OF 1" ELECTRICAL CONDUIT (EMT) WITHIN FIREHOUSE
NEG.	1 EACH	F/I 16.5' STEEL MAST ARM POLE (WITH "T" @ 15'-0") - 50' MAST ARM - (CUT TO 36')
NEG.	1 EACH	1 1/2" WEATHERHEAD (PHONE DROP)
NEG.	1 EACH	RELOCATE EXISTING SIGN



CABLE HEIGHTS
19.6 PHONE
20.5

39419
02879

39411
02879
C&P 660
MD
659

39422
02866
C&P 660

39392
02865

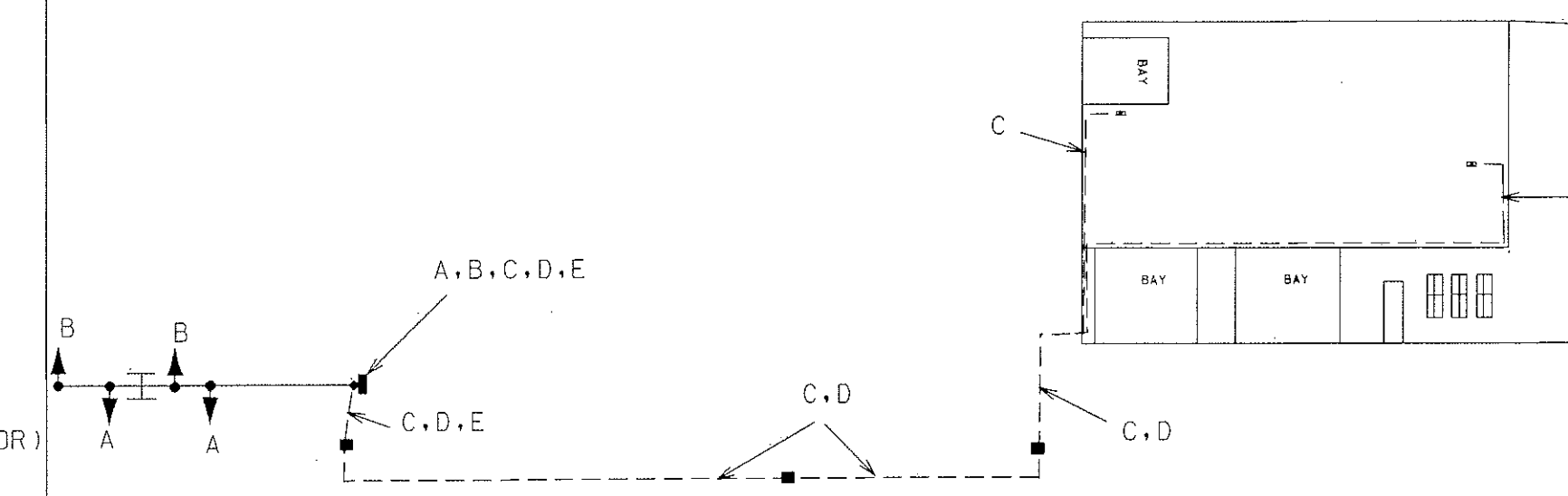
EMT/PUSHBUTTON INSTALLATION HURLOCK VOL. FIRE CO. STATION 6

NOTE: NOT TO SCALE

CONSTRUCTION DETAILS

- INSTALL 16.5' STEEL POLE (WITH "T" - 15'-0") WITH 50' MAST ARM (CUT TO 36') SIGNAL HEADS, PHOTO CELL, SIGNS AND POLE-MOUNTED CABINET WITH SERVICE (2-3" PVC BEND AND 1-2" BEND).
- INSTALL HANDHOLE.
- INSTALL 2" ELECTRICAL CONDUIT, PVC (SCHEDULE 80) - TRENCHED. (TO BE DONE PRIOR TO POURING OF 5' SIDEWALK, WHERE APPLICABLE).
- INSTALL 4" CONCRETE FOR 5' SIDEWALK AS SHOWN ON PLANS.
- REMOVE EXISTING AND INSTALL 12" WHITE PAVEMENT MARKING TAPE FOR CROSSWALK.
- REMOVE EXISTING SIGN AND POST AND RE-INSTALL SIGN AND POST IN NEW LOCATION.
- INSTALL 2" PVC 90 DEGREE ELBOW, RISER AND LB INTO FIREHOUSE. (EXTERIOR AND INTERIOR)
- INSTALL PUSHBUTTONS, EMT AND (6" X 6") STAINLESS STEEL BOX IN FIREHOUSE.
- PROPOSED OVERHEAD FEED BY CONNECTIVE POWER DELIVERY.

WIRING DIAGRAM



PHASE CHART

	1	2	3	4
	(Y)	(Y)	(Y)	(Y)
NORMAL	DARK	DARK	DARK	DARK
PRE-EMPTION	FL/Y 12'	FL/Y 12'	FL/Y 12'	FL/Y 12'
FLASHING OPERATION				

REVISIONS 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 8	
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